



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Serial No.:	10/782,316	Art Unit: 2681
Filed:	February 19, 2004	Examiner: Not Yet Known
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For: JOINT, ADAPTIVE CONTROL OF EQUALIZATION, SYNCHRONIZATION,
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Pasha Barnes
Pasha Barnes

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with Rules 56, 97 and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), the patent publications listed on the attached PTO/SB/08A are submitted for consideration by the Examiner. Copies of all non-US patent references and/or non-patent literature documents are enclosed.

Submission of the references provided in this Information Disclosure is not intended to constitute an admission that any reference referred to herein is prior art for this invention unless specially designated as such. Also, in accordance with 37 C.F.R. § 1.97(g), the filing

of this Information Disclosure Statement shall not be construed to mean that a search has been made, or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

This Information Disclosure Statement is being filed before the issuance of a first office action on the merits of the application (37 C.F.R. 1.97(b)(3)); therefore, no fee is believed to be due. If a fee is due, the Commissioner is authorized to charge such fee and any additional fees that may be due or credit any overpayment to Deposit Account No. 11-0855.

Respectfully submitted,



Jason D. Gardner, Esq.
Reg. No. 58,180

KILPATRICK STOCKTON LLP
Suite 2800, 1100 Peachtree Street
Atlanta, Georgia 30309-4530
(404) 815-6500

Attorney Docket No.: S0465/283640

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	8	Complete if Known
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Application Number 10/782,316

Filing Date February 19, 2004

First Named Inventor Endres

Art Unit 2681

Examiner Name Not Yet Assigned

Attorney Docket Number S0465/283640

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		US- 2,977,551	03-28-1961	Gibson et al.	
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Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

2

of 8

Complete if Known

Application Number	10/782,316
Filing Date	February 19, 2004
First Named Inventor	Endres
Art Unit	2681
Examiner Name	Not Yet Assigned
Attorney Docket Number	S0465/283640

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature	Date Considered
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3

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8

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<i>Application Number</i>	10/782,316
<i>Filing Date</i>	February 19, 2004
<i>First Named Inventor</i>	Endres
<i>Art Unit</i>	2681
<i>Examiner Name</i>	Not Yet Assigned

Attorney Docket Number S0465/283640

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		Number - Kind Code ² (if known)			
		US- 5,321,514	06-14-1994	Martinez	
		US- 5,327,460	07-05-1994	Batruni	
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		US- 5,386,239	01-31-1995	Wang et al.	
		US- 5,412,720	05-02-1995	Hoarty	
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Sheet

4

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8

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<i>Application Number</i>	10/782,316
<i>Filing Date</i>	February 19, 2004
<i>First Named Inventor</i>	Endres
<i>Art Unit</i>	2681
<i>Examiner Name</i>	Not Yet Assigned
<i>Attorney Docket Number</i>	S0465/283640

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5

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		US- 6,310,548	10-30-2001	Stephens, Jr. et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
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Examiner
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Considered

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Application Number</i>	10/782,316
(Use as many sheets as necessary)				<i>Filing Date</i>	February 19, 2004
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Sheet	6	of	8	Attorney Docket Number	S0465/283640

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
		Lucky, R.W.: "Techniques for adaptive equalization of digital communication systems" <i>Bell Systems Technical Journal</i> , vol. 45, no. 2, pp. 255-286, Feb. 1966.		
		Godard, D. N.: "Self-recovering equalization and carrier tracking in two-dimensional data communication systems," <i>IEEE Transactions on Communications</i> , vol. 28, no. 11, pp. 1867-1875, Oct. 1980.		
		Treichler, J. R., and Agee, B.G.: "A new approach to multipath correction of constant modulus signals," <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , vol. ASSP-31, no. 2, pp. 459-472, April 1983.		
		Casas R. A., et al.: "Current approaches to blind decision feedback equalization," in the textbook, "Signal processing advances in wireless and mobile communications: trends in channel estimation and equalization," edited by G. Giannakis, et al., Prentice Hall, Upper Saddle River, NJ, 2000.		
		Daneshard, B. et al. "Finite Wordlength Requirements for Adaptive Signal Processing Elements in Digital QAM ADSL Systems." Communications, 1994. Supercomm/ICC '94, Conference Record, 'Serving Humanity Through Communications.' May 1, 1994. ISBN: 0780318250.		
		Naito, T. et al. 'Adaptive Equalization Based on Internal Model Principle for Time-Varying Fading Channels.' IEEE, October 1, 2001, pg. 363-368, XP010521667.		
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		NetMedia: MM73/NMOD3 Triple Play Modulator Installation Manual. Net Media, Tucson, AZ (undated)		
		Ciciora, Dukes, Hartson, Hoarty, <i>Embedding high-speed data in analog signals</i> CED Magazine, December 2001, pg 92-100		
		Modern Cable Television Technology: Video, Voice, and Data Communications, 1999 Walter Ciciora, James Farmer, David Large, Morgan Kaufman ISBN 1-55860-416-2,		
		Ormiston, et al "Compact Low Noise Receiving Antenna" IEE Electronics Letters, 9 July 1998, Vol., 34, No. 14, pp. 1367-1368		
		Tooley et al.; "Active Receiving Antenna", Practical Wireless, Mar. 1981, vol. 57, No. 3, pp. 52-55		
		Chen, Brian. <i>The Key to Unlocking Network Assets: Increasing Capacity by Embedding Content in Current Video Transmissions.</i> CED Magazine, December 2001. http://www.cedmagazine.com/ced/2001/1201/12f.htm .		

Examiner Signature	Date Considered
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number		10/782,316	
		Filing Date		February 19, 2004	
		First Named Inventor		Endres	
		Art Unit		2681	
		Examiner Name		Not Yet Assigned	
Sheet	7	of	8	Attorney Docket Number	S0465/283640

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
		Press Release of WavePhone, Inc. entitled "WavePhone and the Canadian Broadcasting Corporation Enter an Agreement to Deliver Data Broadcasting Nationwide in Canada," dated March 29, 1995		
		Advertisement in <u>Investor's Business Daily</u> , "Technology Offers TV Broadcasters An Avenue Into Interactive Services", Monday, April 19, 1993		
		News Release of WavePhone, entitled "WavePhone and Belcom Sign Agreement to Co-Develop Russian Data Broadcasting System" (two pages, believed to have been released April 10, 1995)		
		Press Release of WavePhone entitled "FCC Proposed to Allow Digital Data Transmission Within the Video Portion of TV Broadcasts, in Response to WavePhone's Request, (two pages, believed to have been released April 25, 1995)		
		Advertisement in <u>The Indianapolis News</u> , "WavePhone Stock Is On Roll", dated May 23, 1995		
		Advertisement in <u>Investor's Business Daily</u> , "Intel, WavePhone Set Technology Alliance, dated Monday, May 8, 1995		
		Press Release, entitled "Intel and WavePhone Sign Technology And Investment Agreement, (two pages, believed to have been released May 5, 1995)		
		Advertisement, <u>The Arizona Republic Business</u> , "Tempe firm, Intel Team Up to Send Data via TV", dated Saturday, May 6, 1995		
		Advertisement, <u>Arizona Business Gazette</u> , entitled "Skyway System Rides TV Signals to Distribute Data -- Speed Key to WavePhone Technology", dated July 13, 1995		
		Advertisement, <u>Arizona Business Gazette</u> , entitled "Motivated CEO Leads WavePhone", dated July 13, 1995		
		Press Release of WavePhone, entitled "WavePhone Develops Data Casting System for Television Azteca In Mexico (two pages, believed to have been released August 8, 1995)		
		Press Release of WavePhone, entitled "WavePhone and Arizona State University Launch Distance Learning Service, (two pages, believed to have been released August 17, 1995)		

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NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		"Digital Data Transmission Within the Video Portion of Television Broadcast Station Transmissions", MM docket No. 95-42.
		G.M. Glasford, <u>Fundamentals of Television Engineering</u> , McGraw-Hill 1955.
		D.G. Fink, <u>Television Engineering</u> , 2nd Edition, McGraw-Hill 1952.
		C.G. Eilers, "TV Mutichannel Sound -- The BTSC System," IEEE Transactions on Consumer electronics, August 1984.
		Taylor, "The Vestigal Sideband and Other Tribulations," P. 203 of the 1988 National Cable Television Association Technical Papers.
		"HDTV & Vestigal Sideband Syndrome" in the IEEE Transactions on Broadcasting, March 1990, p. 8.
		Wave Generation & Shaping, Leonard Strauss, McGraw-Hill 1970, Chapters 1 and 2.
		W. Ciceri et al., "A Tutorial on Ghost Canceling in Television Systems," IEEE Transactions on Consumer Electronics, Vol. CE-25, No. 1, Feb. 1979, pp. 9-44.
		V. Thomas Rhyne, "Fundamentals of Digital System Design.
		Hill, et al. - Introduction to Switching Theory & Logical Design," John Wiley & Sons 1968, SBN 471 39880 K.
		Tanenbaum, A. "Computer Networks," Prentice Hall 1996, ISBN 0-1-349945-6.
		Spohn, D.L., "Data Network Design," McGraw Hill, 1993 ISBN 0-07-06-360-X.
		Kaufman, C., "Network Security," Prentice Hall, 1995 ISBN 0-13-061466-1.
		Ariyavitsakul et al. "Joint Coding and Decision Feedback Equalization for Broadband Wireless Channels" IEEE; December 1998; pgs 1670-1678; Vol.19; No. 9

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